Released TKHill 1/7/93

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

1. General Site Information

Name:			Street Address:		
Sooner Dial			1002 South 10th Street		
City:	State:	Zip Code:	County:	Co. Code:	Cong. Dist:
Clinton	OK	73601	Custer	17	
Latitude: Longitude:	Approx. Area of Site:		Status of Site:		
35° 30' 18.2" 98° 58' 18.6"	10000 sq feet		Active		

2. Owner/Operator Information

Owner:			Operator:		
Ron Grubb			Buddy Miller		
Street Address:			Street Address:		
S of City			NW of City		
City:			City:		
Clinton			Clinton		
State:	Zip Code:	Telephone:	State:	Zip Code:	Telephone:
OK	73601	405 323-6400	OK	73601	405 323-2823
Type of Ownership:			How Initially Identified:		
Private			State/Local Program		

Revised PA Score
9/1/92

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

3. Site Evaluator Information			
Name of Evaluator: David S. Crow	Agency/Organization: OSDH		Date Prepared: 08/11/92
Street Address: 1000 NE 10th Street	City: Oklahoma City		State: OK
Name of EPA or State Agency Contact: Bartolome Canellas	Telephone: (214) 655-6740		
Street Address: 1445 Ross Ave.. Suite 1200	City: Dallas		State: TX

4. Site Disposition (for EPA use only)		
Emergency Response/Removal Assessment Recommendation: No Date:	CERCLIS Recommendation: ~~Higher Priority SI~~ NFRAP — SEA Date: 9/1/92	Signature: Name: BJ Canellas Position: 6H-MA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site:	Site Setting:	Years of Operation:
Commercial Residential	Urban	Beginning Year: 1940 Ending Year: 1969

Type of Site Operations:	Waste Generated:
Other: Stripping of radium paints from dials	Onsite
	Waste Deposition Authorized By: Unauthorized
	Waste Accessible to the Public: Yes
	Distance to Nearest Dwelling, School, or Workplace: 0 Feet

6. Waste Characteristics Information

Source Type	Quantity	Tier
Contaminated soil	1.00e+04 sq ft	A

General Types of Waste:
- Solvents
- Paints/Pigments
- Radioactive Waste

Physical State of Waste as Deposited:
- Sludge

Tier Legend
C = Constituent W = Wastestream
V = Volume A = Area

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles: Yes Type of Ground Water Wells Within 4 Miles: Private	Is There a Suspected Release to Ground Water: Yes Have Primary Target Drinking Water Wells Been Identified: Yes Primary Target Population: 18	List Secondary Target Population Served by Ground Water Withdrawn From:
Depth to Shallowest Aquifer: 0 Feet Karst Terrain/Aquifer Present: No	Nearest Designated Wellhead Protection Area: None within 4 Miles	0 - 1/4 Mile 0 >1/4 - 1/2 Mile 0 >1/2 - 1 Mile 0 >1 - 2 Miles 0 >2 - 3 Miles 0 >3 - 4 Miles 0 Total 0

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

8. Surface Water Pathway — Part 1 of 4

Type of Surface WatDraining Site and 15 Miles Downstream:	Shortest Overland Distance From Any Source to Surface Water:
River	9500 Feet 1.8 Miles
Is there a Suspected Release to Surface Water: Yes	Site is Located in: > 500 yr floodplain

8. Surface Water Pathway — Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: No

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:
None

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

8. Surface Water Pathway — Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: Yes

Secondary Target Fisheries:
None

8. Surface Water Pathway — Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) Yes

Secondary Target Wetlands:
None

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: Yes

Secondary Target Sensitive Environments:
None

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: OK	CERCLIS Number:
	CERCLIS Discovery Date: 04/01/91	

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: Yes Total Resident Population: 13	Number of Workers Onsite: 1 - 100

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:	
Onsite	16
0 - 1/4 Mile	492
>1/4 - 1/2 Mile	868
>1/2 - 1 Mile	2969
>1 - 2 Miles	4933
>2 - 3 Miles	26
>3 - 4 Miles	263
Total	9567

Is There a Suspected Release to Air: No

Wetlands Located Within 4 Miles of the Site: No

Other Sensitive Environments Located Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

Released to Hill 1/7/93

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

PA-Score

PA ScoreSheets

Site Name: Sooner Dial
CERCLIS ID No.:
Street Address: 1002 South 10th Street
City/State/Zip: Clinton, OK 73601

Investigator: David S. Crow
Agency/Organization: OSDH
Street Address: 1000 NE 10th Street
City/State: Oklahoma City , OK

Date: 08/11/92

Revised PA Score
9/1/92

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 on-site surface soil	Contaminated soil	Ref: 3	WQ value	maximum
Area	1.00E+04 sq ft		2.94E-01	2.94E-01

** Only First WC Page Is Printed ** | Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List Suspected Release	
Are sources poorly contained? (y/n/u)	U
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	U
Is waste quantity particularly large? (y/n/u)	N (U)
Is precipitation heavy? (y/n/u)	BJL N
Is the infiltration rate high? (y/n/u)	U
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	U
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	U
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	U
Other criteria? (y/n)	N
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

A septic system and basement may have been used to dispose and store, respectively, radium containing and nonradioactive paint wastes.

BJL. There is no evidence to support a suspected release.

BJL. A suspected release will be assumed for scoring purposes. This will reflect the worst case scenario

Ref: 3

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	BJF N (Y)
Has any nearby drinking water well been closed? (y/n/u)	U
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	U
Does any nearby well have a large drawdown/high production rate? (y/n/u)	U
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	U
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	U
Does any drinking water well warrant sampling? (y/n/u)	BJF. N (Y)
Other criteria? (y/n)	N
PRIMARY TARGET(S) IDENTIFIED? (y/n)	Y

Summarize the rationale for Primary Targets:

There are six (6) private wells serving an estimated population of 15.3 persons within the study radius. The nearest well is located about two (2) miles southeast of the site. Due to the fact that soil permeability is moderate and a shallow aquifer underlies the site, wells within the study radius are considered primary targets.

There are limited targets, closest well is 2 miles from site, a suspected release has been assumed.

These well will be evaluated as secondary targets.

Ref: 5,16,17

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

			Ref.
Do you suspect a release? (y/n)		Yes	
Is the site located in karst terrain? (y/n)		No	18
Depth to aquifer (feet)	0	18	
Distance to the nearest drinking water well (feet):		10000	5

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 18 person(s)	~~180~~ 0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	~~3~~ 0	0	
5. NEAREST WELL	~~50~~ 5	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	~~235~~ 13	0	

WASTE CHARACTERISTICS

WC =	~~32~~ 18	0

GROUND WATER PATHWAY SCORE:	~~50~~ 2

Secondary

Ground Water Target Populations

~~Primary~~ Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
1 Davis well	3.00	0	5	0 ~~30~~
2 Cabaniss well	4.00	0	5	0 ~~30~~
3 Peck well	3.00	0	5	0 ~~30~~
4 Price well	2.00	0	5	0 ~~30~~
5 Kupka well	2.50	0	5	0 ~~30~~
*** Note : Maximum of 5 Wells Are Printed ***			Total	0 ~~180~~

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0	24	0
Greater than 1/4 to 1/2 mile	0	24	0
Greater than 1/2 to 1 mile	0	24	0
Greater than 1 to 2 miles	3	24	1
Greater than 2 to 3 miles	6	24	1
Greater than 3 to 4 miles	9	24	1
		Total	3

Apportionment Documentation for a Blended System

Surface Water Pathway Criteria List Suspected Release			
Is surface water nearby? (y/n/u)	BJC	N	(Y)
Is waste quatity particularly large? (y/n/u)	BJC	N	(Y)
Is the drainage area large? (y/n/u)			Y
Is rainfall heavy? (y/n/u)			N
Is the infiltration rate low? (y/n/u)			U
Are sources poorly contained or prone to runoff or flooding? (y/n/u)			U
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)			Y
Is vegetation stressed along the probable runoff path? (y/n/u)			N
Are sediments or water unnaturally discolored? (y/n/u)			N
Is wildlife unnaturally absent? (y/n/u)			U
Has deposition of waste into surface water been observed? (y/n/u)			U
Is ground water discharge to surface water likely? (y/n/u)			N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)			U
Other criteria? (y/n) N			
SUSPECTED RELEASE? (y/n)			Y

Summarize the rationale for Suspected Release:

Due to the nature of radium, the unknown mobility of the solvents used on-site, a stormwater drain is nearby, and perennial water is w ithin about 1.5 miles downstream, a surface water release is suspected.

WC. There is no data to support a suspected release

WC. A suspected release will be assumed for scoring purposes. This will reflect the worst case scenario

Ref: 1,3,6,13

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
N Drinking water intake
Y Fishery
U Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N (Y)
N Drinking water intake
Y Fishery
Y Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -------

continued -------

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Fisheries:

Based on the nature and character of the fishery known to be within the 0.5 miles from the site, the fishery is considered a primary target.

- PPE is 1.5 to 2 miles from site.
- River flow is 90 CFS
- Waste quantity is small.
- There is no evidence to support a suspected release.
- Fisheries will be evaluated as secondary

Ref: 13,25

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Sensitive Environments:

Habitats of any one of the threatened/endangered species known to be within Custer and Washita Counties may actually be associated with the surface water migration route, i.e. the Washita River. The river also is considered to have wetlands.

- No specific sightings or nesting areas for threatened / endangered species has been identified.
- Targets will be evaluated as secondary targets and a suspected release will be assumed

Ref: 23,25

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	Yes	[illegible]
Distance to surface water (feet):	9500	1
Flood frequency (years):	>500	22
What is the downstream distance (mles) to:		
a. the nearest drinking water intake?	N.A.	20
b. the nearest fishery?	1.5	1
c. the nearest sensitive environment?	1.5	1,25

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550	[illegible]	[illegible]
2. NO SUSPECTED RELEASE	[illegible]	0	
LR =	550	0	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	5	0	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					

Total Primary Target Population Value 0
Total Secondary Target Population Value 0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0 ~~300~~		
10. SECONDARY FISHERIES	210 ~~0~~	0	
T =	210 ~~300~~	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Washita River	Y	primary fishery	1	30 ~~300~~

Total Primary Fisheries Value 0 ~~300~~
Total Secondary Fisheries Value 210 ~~0~~

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0 ~~300~~		
13. SECONDARY SENSITIVE ENVIRONS.	10 ~~0~~	0	
T =	10 ~~300~~	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Washita River	Y	primary sens. envir.	23,25	300

Total Primary Sensitive Environments Value 0 ~~300~~
Total Secondary Sensitive Environments Value 10 ~~0~~
*** Note: Maximum of 6 Sensitive Environments Are Printed ***

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	5	32	1
Human Food Chain	550	300	32	~~64~~ 125
Environmental	550	300	32	~~60~~ 1

SURFACE WATER PATHWAY SCORE: ~~100~~ 27

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u) BJC U Ⓧ

Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u) U

Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u) U Ⓧ BJC

Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u) U

Does any neighboring property warrant sampling? (y/n/u) BJC N Ⓧ

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) Y

Summarize the rationale for Resident Population:

There is no controlled access, three (3) workers are on-site, and 12.75 residents are within 200 feet of the site. Also, there is no controlled access at the site. A residence is located less than fifty (50) feet from an area having the highest radioactivity readings on-site.

Ref: 3,7

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	Yes	3
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	Yes	3
Is the facility active? (y/n):	Yes	3

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 13 resident(s) 0 school/daycare student(s)	~~130~~ OK	3 3
3. RESIDENT INDIVIDUAL	~~50~~ OK	
4. WORKERS 1 - 100	~~5~~ OK	3
5. TERRES. SENSITIVE ENVIRONMENTS	~~0~~ OK	
6. RESOURCES	~~5~~ OK	
T =	~~190~~ OK	

WASTE CHARACTERISTICS

WC = 18

RESIDENT POPULATION THREAT SCORE: 23

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 24

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		

Total Terrestrial Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	U
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u	U
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	U
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	No	
Distance to the nearest individual (feet):	50	3

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	24	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	0	5	
T =	0	49	

WASTE CHARACTERISTICS

WC =	0	18

AIR PATHWAY SCORE:	5

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	16	24	2
Greater than 0 to 1/4 mile	492	24	13
Greater than 1/4 to 1/2 mile	868	24	3
Greater than 1/2 to 1 mile	2969	24	3
Greater than 1 to 2 miles	4933	24	3
Greater than 2 to 3 miles	26	24	0
Greater than 3 to 4 miles	263	24	0
		Total Secondary Population Value	24

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		

Total Primary Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			

Total Secondary Sensitive Environments Value

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	~~50~~ 2 BJL
SURFACE WATER PATHWAY SCORE:	~~100~~ 27 BJL
SOIL EXPOSURE PATHWAY SCORE:	24
AIR PATHWAY SCORE:	5
SITE SCORE:	~~57~~ 18 BJL.

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? Yes

   If yes, identify the well(s).
   The nearest well used for domestic purposes is located within 2 miles from the site at the Price residence.

   If yes, how many people are served by the threatened well(s)? 3

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   A. Drinking water intake — No
   B. Fishery — Yes
   C. Sensitive environment (wetland, critical habitat, others) — Yes

   If yes, identity the target(s).
   Endangered/threatened species' habitat and wetlands that may be associated with the Washita River.

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? Yes

   If yes, identify the properties and estimate the associated population(s)
   Five (5) residences flanking the western boundary of the site, housing an estimated population of 13.

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

   If yes, explain:

REFERENCE LIST

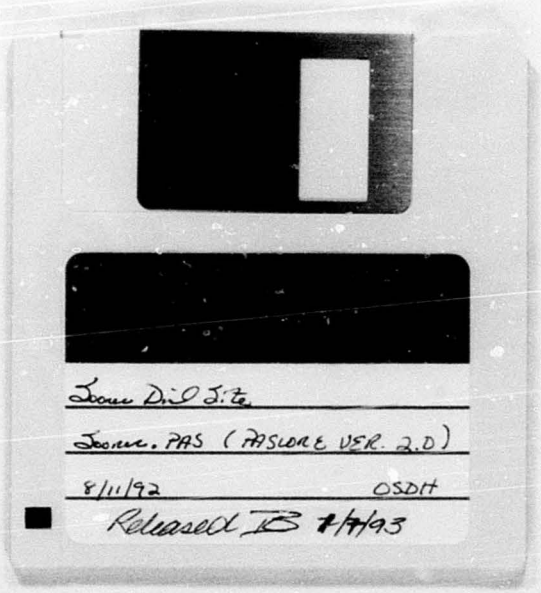
from CDM

FIRST CLASS MAIL

to USEPA - Region III
Site Assessment Section

FLOPPY DISK MAILER

Do not bend or fold. Avoid exposure to all magnetic fields.
For 5¼" MINI FLOPPY DISK



Source Disk 5.5"

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8/11/92 OSDH

Released to P/A/93